TEXTILE BULLETIN

VOL. XI

CHARLOTTE, N. C., APRIL 13, 1916

NUMBER 7

VICTOR MILL STARCH—The Weaver's Friend



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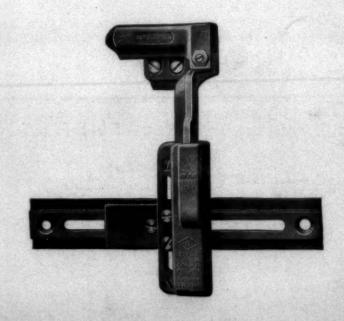
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SOUTHERN IEXTILE BULLETIN

VOLUME XI

CHARLOTTE, N. C., APRIL 13, 1916

NUMBER 7

American Branch Banks in Foreign Countries

(Continued from Last Week).

These are useful aids which we seek to render, but obviously they do not in themselves constitute foreign commerce. Upon your combined wisdom and energy, your co-operation and intelligent study of these problems, your initiative, enterprise and practical manage-ment, the development of your foreign trade will depend; and upon the results which you and those like you obtain in these fields, the future greatness and commercial supremacy of this country will in time to come largely depend. As a nation we have not hitherto made these things the object of the careful study that other countries— notably England and Germany have given them, or that we have given to our own domestic commerce. It has been intermittent, occasional, experimental, and with no well sustained policies of government, scientific study of commercial treaties and tariffs, or sustained effort and co-operation of business organizations. The war brings home to us in this connection the vital need of an adequate Merchant Marine under the American flag and working under laws and conditions which will not place us hopelessly under a disadvantage in competition foreign nations. In normal times this has not been an insuperable handicap, for the reason that tonnage of all kinds, even though under foreign flags, has been available for the transportation of such foreign export business as we have developed; but for reasons analogous to those which I have shown as illustrating how much a banking system of our own may assist marks the National City Bank's secand foreign trade, the auxiliary assistance that might have been rendered to us by the establishment of steamship lines, under American factor in promoting the foreign As much publicity has been given trade of other countries, as well as to the organization, purposes and a most valuable industry of those objects of this company, on account countries, has been lost to us with all concomitant advantages; and in times of war, as at the present, our absolute dependence upon ships ly strong interests behind it, and its of foreign registry becomes a dis-very able personel in the active tressing condition.

Another great and paramount advantage which notably England and vantage which notably England and The establishment of foreign trade. Germany have enjoyed, and which branches was the first great step. Have been to the process of the context of the co

derating foreign business has been eign investments. the willingness of these countries the practical means at their command, to furnish round amounts of capital, running into billions of dollars for the construction of publie works, railroads, and all manner of public and private utilities. for which those countries required outside capital in continuous and large amounts in their development.

It is perfectly natural that the channels of commerce of debtor nations should flow to creditor nations, extending the credit which they are bound to have. A railroad constructed with English capital will buy its equipment and supplies in England, and an industrial corporation financed by German capital is likely to make its purchases as far as possible in Germany; and the employes on their pay-rolls, as far as practicable, will be from those countries. A debtor country must naturally make its purchases largely in the market of the country where credit may be obtained in some form or other, for the settlement of trade balances; and merchants of foreign countries will very naturally prefer to place their orders in countries where more or less long credits may be obtained rather than to purchase from us, if we sell only for cash and hold aloof altogether with respect to investments of capital.

Recognizing this condition as fundamental, the American International Corporaton, recently charterunder the laws of New York, with a capitalization of \$50,000,000, building up foreign relationships ond great step in the permanent expansion of American foreign trade. Mr. F. A. Vanderlip, who was the moving spirit in the conception and organization of this company, is registry, and which has been a large Chairman of the Board of Directors. its recognized far-reaching importance, I take it for granted that you are familiar with the exceedingvery able personel in the active management and on its board of di-

The States is the one great nation of the world with an abundant supply ment public could be interested in absorbing foreign investments of this character in any volume, a powerful intermediary company of this character became not only necessary but indispensable.

Under the broad provsions of its charter, it is authorized to carry on any kind of business, subject, course, to the regulations and restructions provided by the laws of the states and countries in which it operates. It can own and operate, or buy and sell, shipping, railroads, street car lines, lighting and water plants, docks, warehouses, mines, factories and mercantile establishments. It can organize such enterprises, start them and as going concerns offer their securities to the public, or it can hold and operate these companies as subsidiaries and sell its ewn securities to the public, based upon these properties. New enterprises in foreign countries are now appealing to American capital: existing enterprises are asking to be financed, and under the exigencies created by the war, investments representing well tried and profitable undertakings are coming on the market for sale at prices that will be attractive to new investors.

Among the valuable points that the experience in branch banking has developed is the close relation existing between a successful foreign commerce and toreign financ-Those countries which have contributed capital to the development of other countries have reaped as a result of these financial relations great commercial advantages.

There is at the present time, pardo not embrace these opportunities it will be a most serious obstacle in the extension of our foreign.

Having thus superficially discuss-

tent in building up their prepon- Foreign trade is built up on for- imposing upon this country the ne-United cessity of seeking outside markets, fundametal and and some of the basic considerations applying to of liquid capital to make foreign in- foreign trade in general. I have, in vestments, but as a nation we have response to your request, at the concerned ourselves even less with same time outlined to you in genforeign investments than with for- erla terms the aid which we seek eign trade, and as a practical propo- to render through the medium of sition, in order to build up an Amer- our branch banks, our foreign trade ican market of any magnitude, department, the American Internathrough which the American invest-tional Corporation, and our other facilities and organization in general.

> Since the beginning of the war the position of this country looking to international operations has been tremendously strengthened by the return and absorption of American securities held abroad, and by heavy foreign financing-principally government loans-in our money markets, all these items combined aggregating a hugh total, estimated up to January first at something like three billions of dollars, distributed as follows:

> Loans to Europe.......\$805,000,000 Loans to Latin America. 70,000,000 Loans to Canada...... 150,000,000

.....\$1,025,000,000 not including many private loans and other items which have been placed in the United States. items, with some large additional financing since the first of January, will very considerably swell the above figures. It is estimated we absorbed in railroad securities up-wards of \$1,500,000,000, and with other securities and the miscellaneous items mentioned, the above es timate of \$3,000,000,000 is probably not excessive; and before the termination of the war these figures will undoubtedly be further increased.

By reason of its wealth and strong position the United States has been projected into the position of the world's banker for the time being. Although not entirely out of debt to Europe, the indebtedness is fast being wiped out and is negligible compared to the present resources of the country. When ticularly for us, a fertile field in the war is over and normal conthis direction, and if as a nation we ditions return, there will not be the ditions return, there will not be the burden of interest on American securities to be paid to Europe in exports as heretofore. have a tendency to curtail European imports from this country, for has aided them to the greatest ex- but it was not enough to stop here, ed some of the economic conditions the crippled nations of Europe cannot afford to import more goods by centralized and coordinate or- overhead expense is reduced and America the natives were accusfrom us than are absolutely neces- ganization of industry and business, profits through economy of pro- tomed both to the growth and mansary for their rehabiliation and ac- and the big efficiency The necessity tual needs. those nations are creditor nations, ant advances in efficiency and econ-referen and other countries,—principally omy of production, while European dustry. Latin-American Republics,are heavily indebted to Europe, very strong considerations will othain for that there can be enormous de-making their purchases of raw ma- struction of wealth without corresterials and supplies as far as possible from South America and oth- tive capacity of a nation. It will er debtor countries-owing themthe more so as those countries produce and export similar raw ma-Europe normally are essentially trade conditions previously referred for raw materials, and her exports to. Our resources and wealth alone South America's exports of raw materials are to a considerable extent of the same character as ours. our gold supply, to restore her manhardest possible competition in all to this country, and by internationter the war and suffering from disorganization of commerce and in-ticable and expedient, thereby safedustry and innumerable gaps in the guarding our gold supply,—which met by natives in canoes, offering ranks of skilled labor, with curren- is the foundation of the credit we cotton yarn and thread for barter. cy inflation, heavy taxation, probacan extend—creating new commerce In Cuba he was surprised to find bly a higher wage scale and emi- with all countries and protecting hammocks made from cotton cord gration of its citizens to this and us from the loss of commerce which in very general use. where conditions

will be through superior organization in big industry is meeting conditions ahead. It has been demonstrated ponding impairment of the producthe organization , productive ability, efficiency and economy of those nations with which we will terials to ourselves. The needs of have to compete, as well as natural essentially manufactured products. will not carry us far enough in the race and our present position will be transitory if we do not take advantage of it to improve in organ-It is to be expected that as normal ization, efficiency, economy of pro-

trade against this country, to drain it, that we can take of our present dyeing is one of the oldest indusfinancial position will be in shiftufacturing industries, re-establish ing so far as possible the indebtedher foreign trade, and give us the ness of debtor nations from Europe respects. While relatively poor af- al financial operations to put all countries in our debt, so far as pracwe now have. Further, it is by

attained duction realized.

reference to the cotton textile in-

Cotton manufacturing is a worldconducted at the wide business, present time with more or less efficiency and modern methods in nearly all nations under the run. It is one of the most ancient forms of industry. We have pretty reliable evidence that cotton was grown years before Christ. Herodotus, the We have pretty reliable father of history, refers to it in his writings 484 B. C. Theophrastus wrote about it three centuries before Christ. Persia very early had cottons and calicoes imported from India. In the Book of Ester reference is made to "white, green and blue hangings" at the feasts which conditions are restored, Europe duction and extension of our trade King Ahasuerus gave 519 B. C. will put forth every ounce of availto the utmost.

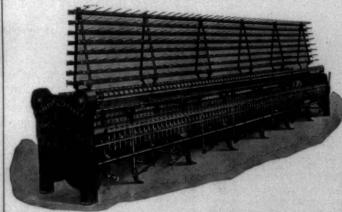
These were striped cottons, and able energy to create a balance of The greatest advantage, as I see this confirms the statement that tries we have. Tents, sail cloth, awnings, fancy coverlets, clothing and other manufactures of cotton were in use among the early Greeks and Romans. Columbus, voyage of discovery in 1492, touched at the Bahamas, where he was

What Columbus observed in the of life are more favorable. Europe running at maximum capacity and West Indies was found afterward will have some heavy handicaps. with effective organization and co- to be by no means confined to these But, on the other hand, the high- operation that the percentage of islands, but in Central and South

profits through economy of pro- tomed both to the growth and manufacture of cotton. When Peru It may not be inappropriate in was subjugated in 1522 by Pizarro, forced on them to build up and phases for the conduct of the war, closing this address to make some the manufacture of cotton was in protect their gold supplies, and as are very likely to result in import- casual observations with particular flourishing condition. Similarly Similarly when Mexico fell into the hands of Cortez in 1519, he was delighted with the quality and beauty of their cotton manufactures. Vasco da Ga-ma, on his voyage to India in 1516 touched at South Africa and found the hatives wearing garments of cotton. It is an ancient industry in Brazil, Egypt and other countries.

> Notwithstanding the age of the industry and the universal experience of mankind with it from remote antiquity, the great manufacturing center of cotton is not in any of the countries that produce it, nor in the countries where lais the cheapest. Of a total of 144,980,000 spindles in 1914, 56,000,-000 or more than one-third, are British About 90 per cent. of all the cotton spindles and looms in Great Britain are located in Lancashire, having an area of only 1 1-2 times that of Rhode Island.

> Mr. Melvin Thomas Copeland, Instructor in Commercial Organiza-tion in Harvard University, in his elaborate and valuable treatise on The Cotton Manufacturing Indusdiscusses in a very interesting and through manner the relative labor conditions, and all other essential factors entering into the production and distribution, in the various counties engaged in the manufacture of cotton textiles. The result of his investigations into the (Continued on Page 9.)



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Finishing Tickings and Denims

ishing must not be underestimated ing machines while being made up by any means it really rests upon a into overalls, etc. These goods bechemical and scientific basis which ing mostly dark, solid colors, indiis but little understood by the aver- go blue, seal brown, etc., must never age finisher whose rule of thumb be starched on the face, but always manipulations, having been more or on the back, and even then never less successful in the past, has tend- with any material that is insoluble ed to impel him to belittle the value or or opaque, such as clay, etc., but of a scientific knowledge, while the with some transparent starch. chemist, on the other hand, with his scientific training and technical taskings and denims may be divided knowledge gained in the universi- into four groups as follows: ties, is very apt to underrate the value of inherited or acquired ex- ces. perience and to think that all the difficulties which arise in practice can be successfully solved purely dition, by the application of a knowledge the chemistry of the processes involved. In finishing, practical experience is an absolutely indispensable factor, still it must be said and fully admitted that a wide practice, no matter how varied, has nothing to lose and everything to gain from a working alliance, of- have other effects which will be fensive and defensive, with science. In this paper we shall deal with the practice, and the principles involyed and underlying the practice of and artificial. The third group infinishing tickings and denims and cludes such bodies as soluble oil, finishing tickings and denims and also with the chemical changes and chloride of zinc and glucose, soap reactions involved, for a good working knowledge of the latter is quite ing agents. essential to the successful carrying out of original constructive experiments, without which experiments fects of the compounds of the first would be difficult, if not impossible in the future, to make much ad- to be added without making the vance in practice. While we shall goods too stiff. Most of these are present the two aspects of the subject, the practical and the scientific, also sometimes act as antiseptics we would say that any recipes which can be given in a paper of this kind line in classifying these posseses but a temporary and isolated value, but the scientific adoptwo-fold object, for instance, clortion of cause to effect, by the aid ide of zinc is at once a softener and of a real acquaintance with the an antiseptic. controling and underlying factors, may be made the basis of successtul working and may be the means of assisting the practical man to appreciate the functions of the processes he is called upon to control Filling and Weighting Substances. in their relation to the results aim-

Before entering into the practical details of the finishing of tickings and denims it may be as well goods themselves and the finish required on each.

Tickings must be firm without excessive stiffness, in all grades they must be finished to a close texture: this involves in the lower grades a heavy filling to fill up the interbetween the threads. goods must be finished to their full standard weight and width. The colors must be clear and bright and untarnished, indicating that all sizing materials must be applied to the back only, the face of the cloth being left completely unsized. The starching and filling materials must he odorless and of such a character that they will not dust out.

While practical experience in fin- or heat up the needles on the sew-

The substances used in finishing

Filling and weighting substan-4

2. Stiffening and binding agents. Substances which impart con-

4. Substances to prevent mildew.

The first group includes gypsum, china clay, various slicates and barium sulphate. The use of these is chiefly to fill up the pores of the fabric and make it look fuller and feel and weigh heavier, though they spoken of later on. group includes such bodies as starch flour, glue and the gums natural and other softening and condition-These are used to give weight and peculiar finishes to the cloth, but chiefly to modify the efand second groups and allow weight known therefore as softeners. and it is not easy to draw a sharp bodies. since many of them are used with a two-fold object, for instance, clor-

The fourth group includes such antiseptics as formaldehyde carbolic acid, whose function is to keep the goods sweet and to prevent the formation of mildew

China Clay is probably the most important filling and weighting substance that can be used in the filling of low grade tickings. ployed to produce the most heavily to say a few words regarding the filled finishes, in which it is necessary to load the cloth to the utmost capacity. The tendency of clay furishes is to produce a stiff finish and a rough, or dull, surface though this can be modified by the admixture, in the making, of suitable ingredients to soften it down China clay is a silicant of alumina and corresponds approximately to the formula, 2SiO2, AI2O3, 2H2O. It is an amorphous white powder insoluble in water, dilute acids and alkalies and most other solvents. It has a specific gravity of about 2.2 some samples being heavier or lighter than this. China clay, when pure and of good quality, is quite white, it has a yellowish or reddish tint this is due to the presence of Denims must be finished firm, such impurities as oxide of iron, thick and leatherly, they must be or organic matter; some makers disfull weight and width and must be guise this color by the addition of so dressed that they will cut easily, a small quantity of ultramarine blue so as not to dull the cutters' knives. The best qualities have a soft unc-

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sive qualities and adheres to the is eminently desirable that it should fingers when moist. China clay is be free from certain cotton goods more so especially on finish of these particular styles of account of its lightness, durability, goods. It should be free from opacity, inertness to atmospheric chalk, which would not only give someinfluences except perhaps times with the trace of blue to improve the color, and this can be eas- them turn dusty and powdery, ily detected by testing with a little which would be fatal to their use weak acid, the blueing material us-It is only decomposed by fusion with alkalis or a prolonged digestion with be filtered and ammonia and amstrong sulphuric acid. It contains, in a normal state, about 13 per cent. of water which is present in not dicate the presence of chalk of merely a state of mechanical mix- form of calcium carbonate. ture, but in a chemical union with the other constituents, and can only be driven off when the clay is subproportion between the various constituents of China clay varies, however, and the combination between materials. place in different proportions in different proportions in different localities

dissipate all lumps that may be in the cloth. it, but it seems to make it smoother other finishing materials, being perfectly neutral and free from traces by either acids or alkalies. It can be used with either acid or alkali

Fineness is of great importance in the value of china clay as a filler, for the finer the clay may be and the freer from grit the better it the precipation of barium salts with will work, and the closer and more sulphuric acid or sulphates, this is compact finishes it will give. There finer and freer from the harsh, gritis no method of expressing the finety feel of the natural barytes, and ness of china clay in actual figures can, therefore, be used for softer and the only way to make a comfinishes where the natural mineral parison with a known standard would be unsuitable. sample; for instance, 4 grams can be weighed out and ground up well into a paste with water in a mortar and washed into a graduated glass cylinder and filled up to a certain mark with water; do the same with same manner as china clay. 5 grams of a known standard, allow both cylinders to stand and note the length of time taken for the clay to stttle down to a given mark. behavior of different samples of clay under this test will give a pretty correct idea of their relative fine- it weighting property depending ness; some settle out slowly and upon its being easily soluble in watgradually, others quickly, showing conclusively that the latter must be hollows of the fibre, and on drying coarser than the fermer. samples part of the cloudy mixture bre to expand, giving it a thick, in suspension that will settle more substantial feel, being perfectly neu-slowly, showing that the sample tral and stable it has no deleterious contains two qualities, one fine and action on the cotton fibre nor the the other coarse. By always being color. There is no liability to mil-careful to conduct the tests in the dew; goods weighted with epsom same way and carefully noting the salts alone were never known to

finishing coarse goods such as tick-

tuous feel, the commoner qualities ings, should be a chemically pure being rougher; it has slight adhe- hydrated silicate of alumina, still it used extensively in the finishing of that might render it unfit for the a harsh feel to the finished goods, but would be very liable to make dusty as bed tickings. Chalk may be deed being usually ultramine which is tected in china clay by treating a very susceptible to acid. China clay sample with dilute hydrochloric is insoluble in water, dilute acids acid; any effervescence will indiand alkalis and most other solvents, cate it presence. It is a further proof is required the mixture may monium oxalate added to the filtrate; a white precipitate will indicate the presence of chalk or some

Gypsum, miner white, sulphate of lime, plaster of Paris 2H2O) is much used for finishing jected to a strong red heat. The in conjunction with china clay. It is neutral in its properties and can be mixed with all other finishing It is a good filler and the silica, alumina and water takes can be used to advantage on tickings mixed with china clay to the proportion of 25 per cent. It does not give so much weight to the All China clay should be boiled goods as Barytes, but it gives a sofbefore using, not only to throughly ter feel and is more easily fixed on

Barium Sulphate Ba SO, is very and it fixes itself on the goods bet- heavy and is a good weighting ter. Good well-prepared china clay agent, but it imparts to the cloth can be used in conjunction with all a harsh feel. It is a good filler, but its value depends upon the fineness to which it is ground, if it is the of either acid or alkali, it is also least inclined to be coarse it is not very stable and not easily attacked easily bound to the goods, and is, by either acids or alkalies. It can therefore, apt to make the cloth powdery and dust off, which would not do for tickings. If finely ground it is free from this defect, as is also Blanc Fixe, which is an artifical barium sulphate, prepared by

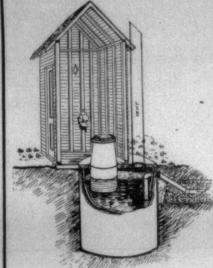
Barytes is perfectly neutral in all its actions, and not subject change, it is therefore, a very suitable body for weighting cloth. can be tested for its fineness in the

Tale and calcium carbonate (chalk) are unsuitable for ticking fillers because they do not stick The but dust off.

Sulphate of magnesium (epsom salts) is a good weighter for denims It easily penetrates the inner it crystalizes, which causes the fitime taken for the various samples mildew. There is, however, a danto settle, a good line of figures can gerous side to the use of epsom salts be obtained which will serve as a which is not generally known. If guide in testing future samples.

Although it is not essential that acter be used with epsom salts, such a sample of china clay, used for as chloride of zinc, chloride of mag-

(Continued on Page 9.)



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ROGERS W. DAVIS, SOUTHERN AGENT CHARLOTTE, N. C.

DISCUSSIONS BY PRACTICAL MEN

The Discusson Page.

The Discussion Page has always. been a prominent feature of the Southern Textile Bulletin and some of the discussions on the various phases of cotton manufacturing have been very interesting and instructive. This page is always open to any contributions that our readers care to make and we are always glad to get articles of a practical nature. When you strike something that puzzles you, or feel that you would like some other man's views on some point in your work, send it in and we will be glad to publish it on the Discussion Page. It is often very helpful to find out what the other fellow is doing and any question on cotton mill work that is asked through this page is almost sure to be answered by some practical man, in a practical way. It helps anyone to write out their ideas on their work, and when you see a question asked, do not hesitate to answer it because you do not happen fluent writer. Practical, everyday discussion of some interesting point makes mighty good reading for a large number of men who are doing work that is similar to yours.

Making Prints.

Editor.

I would like to ask the following question in making print cloth 64x 60. 38 1-2 inches wide weight 5.35 pounds to the yard. What number of warp yarn would be required, also number of filling yarn? What percentage of sizing compound to use; also number of harness and reed? Would like to have the ideas of practical weavers and superintendents that have made prints successfully, as I want to know the lay-out for making these the goods.

"Bill."

Are the Young Men Preparing?

I would like for some one to explain to me through the columns of the Bulletin, why it is so hard

find competent second hands and next session. overseers among the young men of measure are trying to have it given not. to-day? Why are they not prepar- consideration as soon as possible. ing themselves to become the su-

the last six weeks to recommend a doubt. good man for overseer weaving, young man preferred, one that had the "get-up and get to it" in him. was unable to do so, I know the I am more powerful than the fellows that would like to have the combined armies of the world? place and draw the pay, but when the rub would come they would not have nerve and qualifications to be to hear from some one as I want to the mightiest of siege guns. know where the trouble is.

Want to Know.

Child Labor Bill Won't Pass Soon.

Washington. - Senator Overman thinks it will be a long time before the child labor bill can come up in the Senate. Now pressing that body for consideration are the naval, rural credits and ship purchase bills, in addition to all the appropriation bills and others, including the President's policy. These will render almost impossible any early considera- sands of wage earners in a year. tion of child labor, and there are chances that it will go over into the most of my work silently. You are

perintendents and overseers of to- has made a strong impression on Why are not more of members of the Senate, especially them taking advantages of the op- the lawyers. They regard it with portunities that are before them? doubt and many of them are inclined I have been asked three times in to give the bill the benefit of the

Who Am 1?

I have destroyed more men than all the wars of the world.

I am more deadly than bullets, and equal to the occasion, I would like I have wrecked more homes than

> I steal, in the United States alone, over \$300,000,000 each year.

> I spare no one, and I find my victims among the rich and poor alike; the young and the old; the strong and weak; widows and orphans know me.

I loom up to such proportions that I cast my shadow over every field of labor from the turning of the grindstone to the moving of every railroad train.

I massacre thousands upon thou-

I lurk in unseen places, and do

Advocates of the warned against me, but you heed

I am relentless, I am everywhere; The question of constitutionality in the home, on the streets, in the factory, at railroad crossings, and on the sea.

> I bring sickness, degradation and death, and yet few seek to avoid me.

> I destroy, crush or maim; I give nothing, but take all.

I am your worst enemy. I AM CARELESSNESS .- Ex.

Indian Head Mills.

| | Cordo | va, Ala. | |
|-------|----------|----------|-----------|
| Scott | Maxwell | | Agent |
| | Pickard | | |
| Paul | Nuckols | | Carder |
| | Nuttall | | |
| W. J. | Grant | | Weaver |
| | Thorne | | |
| | irst | | |
| L. C. | Spearman | | .Engineer |
| | | | |

Cherry Cotton Mills.

Florence, Ala.

| M. W. Darby | Superintendent |
|-------------|-----------------|
| | Asst. Super. |
| | Carder |
| | Spinner |
| F. Holt | Master Mechanic |
| W. H. Holt | Engineer |

Lowe Mfg. Co.

Huntsville, Ala.

| 1 P 4 P 5 P 1 M 2 P 3 P 5 P 5 P 5 P 5 P 5 P 5 P 5 P 5 P 5 |
|---|
| J. T. McGregor Superintendent |
| John M. MartinPaymaster |
| W M. GillisCarder |
| J. H. BarnhillSpinner |
| P. B. MullinsWeaver |
| J. H. WinnDyer |
| Joe. E. BrendleFinisher |
| John S. Brown Master Mechanic |

Avondale Mills.

Avondale, Ala.

| 1007-1007-1007-100-100-1007-100-100-100- |
|--|
| Z. H. MangumSuperintendent |
| J. P. InglettCarden |
| W. L. PhillipsSpinner |
| J. J. Hyde |
| R C. GilmoreCloth Room |
| I H Rurnann Master Mechanic |

If you want a lubricant that stays where it's put—that sticks tight to its job of checking friction—that does not go flying over the room—does not cause oil-stained goods, oil-soaked floors or messy machinery-



It eliminates loss from oil-stained goods and for this one reason alone you need it. Is better than fluid oil, beats any kind of grease, and does away with the necessity for so-called stainless oils.

The use of Non-Fluid Oils means less power wasted, more profitable and cleaner machinery, greater production and a lower bill for lubricants. Verify these things for yourself. Write for samples and literature—today.

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Lickerins Rewound.

Cotton Mill Machinery Repaired

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240 River Street, Greenville, S. C.

127 Central Avenue, Atlanta, Ga.

(Continued from Page 4). labor scales of various countries is summarized as follows:

"Definite conclusions as to the exact difference in labor cost between the several countries cannot One thing is certain, be drawn. however; the earnings of American cotton mill operatves more closely approximate those received in England than we have commonly been

led to suppose.

And when the output per operative is taken into account, it appears very doubtful if the labor cost on ordinary goods is appreciably higher in our own country. The difference in the preparatory and spinning process is slight, and in weaving the advantage is in favor of the Americans. The Germans may excel in the production of the cheaper novelities, and the French in certain fancy goods, but England is still the great exporter of cotton fabrics, although her work people obtain higher earnings. Similarly, the high American wages do not necessarily denote a handicap. The cheapest labor may be the dearest. At all events, I have no hesitation in asserting that higher wages are one of the least of the American cotton manufacturers in international competition."

Admittedly, however, the labor United States than in any other countries, notwithstanding which their combined cotton spindles in operation number 88,000,000 against

in the world.

Great advancement has been made in the United States in the last fifteen years, and in a recent extremely interesting article by Mr. Herbert Walmsley, who may be considered high authority, he refers to the advantages of Lancashire in cheap fuel, climate, building materials, economy of machinery installation, and abundant trained labor, as the principal advantages of Lancashire district. In the same article he expresses himself as follows:

"Some years ago the writer stated in a paper read before the New England Cotton Manufacturers' Associthat our manufacturers should turn their attention to a more extensive production of the finer and higher grades of cotton plish it. goods. First, on account of the increased and increasing production of the coarser grades by the Southern mills; and second, in view of the fact that so many million dollars' worth of fine goods are annually imported into this country from over the water.

"Since this statement was made the cotton manufacturing industry of the United States, both North and South, has increased enormously, until it may now be said without fear of contraduction that our mills are capable of producing goods which compare favorably with the goods of foreign make for quality, tastefulness of weave, and finish.

Our leading fine spinning mills say-unfavorable conditions. likewise now produce superior high

SOUTHERN TEXTILE BULLETIN.

American Branch Banks in Foreign "We know of no reason why our shaps, mills cannot turn out any and every intimately together. and most artistic work of the spin- are among the first of these to be use for finishing purposes.

are and looms of either England or enumerated. These fulfill two re- Sago starch, or flour, as it is callracturing, more especially when we come to the manufacture of the fin- the general appearance of the cloth; to the cloth which is not so desiramaking of which quality and perfection, not quantity and imperfection must ever be kept in mind."

present war conditions exceptionally favorable opportunities exist for the extension of your trade. being is the congested shipping sit- of china clay, barytes or other opanation. to which we have been giving special attention, is in a very receptive condition and is calling for American goods on a much larger scale than ever before. The predicate has been laid, as I have shown in various important respects for

building up permanent business. You will have to study what your foreign trade calls for and furnish them the goods they want, made up. according to their tastes and reobstacles which stand in the way of quirements, humoring the idiosyncrasies of their trade, rather than forcing upon them our ideas and goods which they do not want. In scale is higher in England and the a word you will have to study them as Europe has studied them. must cultivate personal friendships; you must give liberal credit terms; you must be prompt and reliable the total of 144,000,000 in operation in filling orders and making deliveries; you must meet competition. You must make it to their advantage to do business with us and you must go at it in a way indicating permanency and sustained effort. It is probable this may be best accomplished by cooperation through a common selling agency, or something of that kind, to minimize expense and obviate unnecessary competition between our merchants and manufacturers, in prices and terms. Difficulties will be encountered, but not incapable of solution. A study of the history of your industry reeals a continuous record of ditions of the most difficult character met and overcome; a record' of sucessy through brains, ability and ingenuity of methods. You will ability find the means to accomsurely

Finishing Denims and Ticking. (Continued from Page 7).

nesium (glycerine, or if the goods containing epsom salts be alternately dampened and dried, they will ecome tender. This is caused by the repeated liquification and crystalization of the salts going on alternately within the fibre which tend to disintegrate it, causing the cloth to become tender and rotten. Thus it will be seen that while the action of epsom salts toward cotton physically dangerous under favorable conditions, or perhaps we should

enumerated. These fulfill two repearance to the goods as china clay or its equivalents would do. For this reason, they are not used in The greatest handicap for the time undimed, and when the application The South American field que fillers would be inadmissible.

The stiffening agents which simply stiffen the goods or act as binding agents to hold the filling and weighting materials firmly in the cloth and to prevent dusting off, include such bodies as starch, flour, dextrine, glue, casein, etc. They do not add materially to the weight of the goods, but, aside from binding all the materials firmly together, they can be made to impart a peculiarly full feel to the cloth and produce a variety of different effects.

The most important of all these is starch. The starches which are chiefly used are corn, potato and sago. The starch granules differ in size and shape, according to their origin and they also give different finishes, for instance, wheat starch gives a rather thin paste which seems to penetrate and become more intimately associated with goods than any other. It imparts a feeling of increased thickness and leaves the surface smooth and bright. As its cost is high its use is chiefly indicated in relation to the finishing of the finer clases of goods, and it has no place in the finishing of tickings or other lowfilled goods.

Corn starch posseses practically the same adhesive and binding qualities as wheat starch, but in some of the finer qualifications it is inferior to wheat but its advantage in price and incidentally its convenient method of preparation outweigh all other considerations.

Potato starch is capable of producing a much thicker paste than corn, which for thick mixings is a desirable thing, its use is also conductive to a mellow and thick feel, but a rough surface effect. It gives firm, crisp finish, and may be used wherever feel is required without adding anything to the weight. In the opinion of the writer its capacity for binding, or holding, heavy filling materials is inferior to that of corn starch. Potato starch yields a much more transparent size than any other starch when boiled with a solution of caustic soda (apparatin), and this seems fibre is chemically neutral, it may to greatly improve and strengthen its binding properties and makes it very valuable in the hands of a grade fine yarns, fully equal to the ing agents which give weight to the ily with china clay, barytes, etc. would not mildew. The fermenta-product of either England or France fabric and stiffening agents which Moreover, potato starch is usually (Continued on Page 16.)

"We know of no reason why our simply stiffen and bind the fabric free from nitrogeneous matter and is, on this acount, not so liable to kind of cotton goods equal in quantipsom salt, glauber salt or sul-mildew. In this respect we may
tity, fineness and finish to the pest phate of soda, glucose and sugar, say that it is the safest starch to
and most artistic work of the solo.

continental Europe, unless it be the quirements in finishing, they stiffen ed, produces much the same kind labor cost, which is such an im- the cloth and make it feel firmer, of a finishing result as corn starch portant item in the cost of manu- and they also add weight to the fin- and can be mixed with it. If anyished goods without interfering with thing, it gives a harder, stiffer feel er yarns and the finer and more being transparent crystaline bodies ble; it can, however, be used with elaborate styles of goods, in the they do not impart a dull chalky ap- it in the mixing if so desired. We do not consider its binding qualities equal to corn. It is absolutely essential to mix it well with water There is no doubt that under the the finishing of tickings, but their before boiling and it must be well usefulness as finishing adjuncts for boiled to make a good, smooth size, denims is clearly indicated, where and this size soon becomes watery the colors must be kept bright and and does not keep well, and must, therefore, be used as soon as made. Altogether we do not exactly approve of sago flour as a finishing proposition.

Tapioca may be classed with sago. Rice is used only in fine, light finishes, and has no place in this present article.

Probably one of the most extensively used and greatly lauded stiffening and binding agents is wheat flour; finishers of the older school would have nothing else. It is not so much used now for a variety of reasons. Soured flour was the only kind that would do good work, and souring flour took time, trouble and floor space. Soured flour is a mixture of flour and water which has been allowed to ferment until it smells badly. According practice of these sour flour finishers of the old school the efficacy of sour flour as a starching material was directly in proportion to its smell. These same solons after souring the flour would run the clear liquor off the top and fill up and wash the flour several times in clear water, allowing it to settle between times. The net result of this procedure was to make the flour into starch which settled and was used, while the gluten or most valuable binding constituent of the flour was washed away and lost. There is no doubt that soured flour if properly made and used is a good thing enough, but don't wash ituse it all. After fermenting a reasonable time, say 24 hours in summer and longer in winter, skim the impurities off the surface and mix it all up together, it will hold the filling better, stiffen better, and show better all round results.

Calvert and Lowe proved that soured flour was an unneces-sary nuisance about the finishing plant by making and patenting the discovery that flour and water agitated together for some time with an infinitessimal addition of caustic soda or potash became precisely of the same consistency, color and condition, chemically and physically as flour that had been soured under all the old time conditions and prejudices with all the combinations of smell and general all round nastiness that were characteristic the starching room of our forefathers. Moreover, they also discovered by the most exhaustive experiments, that flour so treated was competent man in cases where the absolutely immune from fungoid There may be classed as stiffen- cloth has to be weighted very heav- growth and that goods sized with it

SOUTHERN TILE BULLE

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Contributions on subjects pertaining to cotton, its manufacture and distribution are requested. Contributed articles do not necessarily reflect the opinion of the publishers. Items pertaining to new mills, ex- in that position we have not the to put their entire mill on an 8 hour tensions, etc., are solicited.

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THURSDAY, APRIL 13, 1916.

Textile Week in Boston.

. The week of April 24th to 29th, to the greatest gathering of cotton tures: mill men that has ever assembled in this country.

The outstanding feature of the circumstances. week will be the Fifth National Textextile machinery, mill accessories in any day. and power devices will cover an area of 215,000 feet of floor space. The textile show of two years ago was the largest of its kind ever held the show will this offer greater number of exhibits than the previous show.

The National Association of Cotton convention Week in Boston, the meetings to be held at the Copley Plaza Hotel.

While the largest representation during Textile Week will be drawn all over the country will attend and it is expected that the South will send a large delegation. No one connected with the textile industry should miss it, as the exhibition will include all the latest and most improved cotton mill machinery, actual operation, and will be an education in itself.

Effects of Eight-Hour Provision.

The Keating Child Labor bill, will be observed as Textile Week which is now before the Senate, may meet such provisions would be of Senate Committee that a similar in Boston. Present indications point be said to contain three main fea-

age may be employed under any is time to seriously study the prob-

Second: No person between the tile Exhibition to be held in the ages of 14 and 16 years of age may passed contains the 8 hour provis- not worked well in that State. Mechanics Building. Exhibits of he employed for more than 8 hours ion for those under 16 years of age

> Third: Inspection of mills by Federal officers.

There is not a very serious obin the world, and it is expected that jection to the first provision because all of the states, with the exception of North Carolina have already enacted legislation that will Manufacturers will hold their an- raise the age limit to 14 years and during Textile such legislation will undoubtedly follow in North Carolina.

We approve of a fourteen year law with the exception that we beand 14 should be allowed to work term. It will be better for the boy point. who can afford the trip to Boston if he can obtain some practical training in his life work before he the spinning room could be exreaches the age of fourteen.

or the cotton manufacturers, but at islation by Congress on this sub- the spinning room.

relative to inspection by Federal capacity than the carding and weavofficers. Several States now have ing rooms and the same rule would state inspection and say that they apply as above. ao not seriously object to Federal inspection, but in our opinion that to work on Saturday afternoon the would be a very different proposi- bill would require investment equation because the Federal inspectors to 20 per cent increase in spinning will be appointed by Secretary of room machinery and sufficient cot-Labor at Washington, probably of tages for additional operatives relabor union officials and direct their quired. efforts towards unionizing the cotton mills. We seriously object to they can extend their spinning Federal inspection, but realize that rooms 20 per cent and not be able co-operation of all of the cotton hasis. They will have no alternamanufacturers. The most serious tive except to refuse employment objection to the Keating bill is the to any person under 14 years of ment of children between 14 and work many persons who must have reads as follows:

"No children under 16 years of mills. age may be employed or permitted to day or more than 6 days in any one week or before the hour of 6 antemeridian or after the hour of 7 post-meridian.

vital importance to cotton manufac-First: No child under 14 years of fort to defeat the Keating Bill. It statement telegrams were sent to

> an 8 hour basis or else discharge every one under 16 years of age.

> The representative of the National Child Labor Committee suggested that the mills can operate by using two shift or sets of employees in the spinning room and the members of House Committee suggested that one shift could work 8 hours and the other shift could then come on and work for 3 hours.

Such suggestions appeal to the inexperienced man who knows from New England, mill men from heve a boy between the ages of 12 nothing of cotton mill operations, but are of course entirely impracin the mill outside of the school tical from the manufacturers stand-

If the mill was so arranged that remain intact. tended to accommodate 20 per cent mended so that it contained only it would be possible to operate the it being defeated.

the fourteen year limit it would not spinning room only 8 hours and furbe objectionable to a vast majority nish enough yarn to keep the looms in operation for 10 hours, but in orthe same time it would be carried der to conform to the provision of to the United States Supreme Court the Keating bill the spinning room m order to establish the fact that would have to run 8 hours on Satnt is unconstitutional for Congress urday, whereas the rest of the mill to regulate manufacturing in States would stop at 12 o'clock, which we and thereby to prevent future leg- think is an injustice to children in

New mills could be built with There is a difference of opinion spinning rooms of 20 per cent more

Aside from forcing the children

Very few mills are fixed so that section which prohibits employ- age, while it will be forcing out of to years of age for more than 8 employment and would have to seek hours in any one day. This section it in other lines where pay is less and conditions worse than in the

Kentucky has a similar law to the work more than 8 hours in any one Keating bill, and the manufacturers in that State have found that it results in raising the age limit to 16 years. The allegation was made To have to adjust their mills to by the House Committee before the bill had provided in Massachusetts. turers and they shoud use every ef- In order to get the truth of this prominent manufacturers which were filed in the Senate Committee Many claim that if the bill when Record and show that the law has

We, of course, realize that those they must put the entire mill under employed as sweepers or on odd jobs can come to the mill one hour later and leave one hour earlier than others, but such an arrangement would not work for the regular spinners and doffers and the effect of the Keating bill as at present, demands means to eliminate those under 16 years of age unless some arrangements can be made for extension of capacity of spinning rooms.

Keating Bill Reported by Committee.

The Interstate Commerce Committee of the Senate on Wednesday decided by a vote of 6 to 5 to report the Keating bill faborably.

A number of amendments were made along technical and legal lines but the main features of the bill

The close vote in the Committee mean of course that it will have a hard fight on the floor of the Sen-If the Keating bill were to be more spinning frames and spoolers ate and there are still prospects of

ERSONAL NEWS

- M. B. Pitts, of Toccoa, Ga., has vonia (Ga.) Mills.
- S. H. Turner of Social Circle, Ga., is fixing looms at Hillside Mills, La-Grange, Ga.
- T. W. Stephens has accepted the position of slasher man at Hillside Mills, LaGrange, Ga.
- D. O. Bryant of Sargent, Ga. night overseer of spinning at Hillside Mills, LaGrange, Ga.
- E. E. Davis of Dunson Mills, has accepted position of loom fixer at Hillside Mills, LaGrange, Ga.

Mills, Columbus, Ga.

M. E. Williamson has resigned as

Sam Lanier of Gastonia, N. C., has become overseer of carding at the Rex Spinning Co., Ranlo, N. C.

- J. M. Broom, of Elberton, Ga., is now overseer of the cloth room at the Eureka Mills, Chester, S. C.
- A. H. Hamilton of Lumberton, N. C., is now night overseer of spinning at the Lydia Mills, Clinton, S. C.
- T. S. Brewster is now section hand the picker room at the Brogon Mill, Anderson, S. C.
- J. C. Stewart has become paymaster at the Brogon Mills, Anderson, S. C.
- R. A. Fairchild is now night superintendent of the Mooresville Cotton Mills, Mooresville, N. C.
- W. B. Chance, overseer of carding at at the Brown Mills, Concord, N. C., S. C. now has charge of the spinning also.
- V. B. Bogan has resigned as over-(S. C.) Mfg. Co., and will take a rest. the same place.
- J. R. Shippy of the Spartan Mills, Fountain Inn (S. C.) Mfg. Co.
- E. Smith, from the Apalache C.) Mill No. 1
- J. H. Hale of Park Cotton Mill, La-Grange, Ga., has accepted position of loom fixer at Hillside Mills of same place.
- L. P. Allen has resigned as second Mills. hand in twisting room at Unity Spinning Mills and accepted the positon of second hand in twisting and winding at Hillside Mills, LaGrange,
- T. Godfrey has resigned as section hand in spinning at the Capital City Mills, Columbia, S. C., and accepted the position of overseer of spinning at the Saxe-Gotha Mills, Lexington, S. C.

- W. A. McNeice of Social Circle, become superintendent of the La- Ga. is fixing looms at Hillside Mills, LaGrange, Ga.
 - W. J. Harper of LaGrange Mills. has accepted the position of second hand in the duck department of Hillside Mills, LaGrange, Ga.
 - W. T. Dupree of Columbus Mfg. Co., Columbus, Ga., has accepted the position of night overseer of weaving at Hillside Mills, LaGrange, Ga.
 - M. G. Benton of Lanett Cotton Fairfax Mill, Fairfax, Ala

Chas. A. Goggans has been pro-Larry McKay is now second hand moted from overseer of twisting in No. 3 weaving at the Meritas room to overseer of spinning room room to overseer of spinning room at Riverside Mills, Riverview, Ala.

John H. Stevens of Lanett Mills, overseer of spinning at the Danville Lanett, Ala., has accepted the posi-S. C. Knitting Mills, Bon Air, Ala. tala Mfg. Co., Montgomery, Ala.

> from day to night second hand in spinning at the Hartwell Mills, Hartweaving at the Meritas Mills, Colum- well, Ga. bus. Ga.

- Pa., is now master mechanic at the Knitting Mills, Bon Air, Ala., Fulton Bag and Cotton Mills, Atlanta, Ga.
- G. B. Heely has been promoted from section hand to second hand in spinning at the Brogon Mills, Anderson, S. C.
- I. W. Rumsey of Calhoun Falls, S. C., has accepted the position of overseer of carding at the Lavonia (Ga.) Cotton Mills.
- T. G. Mitchell of Schoolfield, Va., has become section hand in spinning the Olympia Mills, Columbia,
- F. Pike of the Toxaway Mills. Anderson, S. C., is now section hand seer weaving at the Fountain Inn in spinning at the Brogon Mills, of

Geo. Howell has been promoted Spartanburg, S. C., has accepted a from loom fixer to second hand in position as overseer weaving at the No. 2 weaving at the Meritas Mills, from loom fixer to second hand in Columbus, Ga.

John P. McCraw has accepted po-Mills, Arlington, S. C., is now second sition of foreman of the machine hand in spinning at the Easley (S. shop at the Union-Buffalo Mills, shop at the Union-Buffalo Mills, Union, S. C.

> T. L. Lawson has resigned as master mechanic at the Manetta Mills, Lando, S. C., and accepted a similar position at the Wilson (N. C.) Cotton

> Lewis Williams has resigned as section hand in spinning at the Pelham (Ga.) Mills to become overseer of night spinning at the Albany (Ga.) Mills.

> G. C. Maulden has resigned overseer of the cloth room at the Entwistle Mills, Rockingham, N. C., and accepted a position with the Cannon Mills, Kannapolis, N. C.

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W. H. Cash has been promoted from second hand in day carding to ed from section hand to second hand night overseer of carding at Hill- in carding at Hillside Mills, Laside Mills, LaGrange, Ga.

without waste.

- W. H. Brigman has resigned as Mills, Lanett, Ala, has accepted the overseer of spinning at Steele's seer spinning at the Cherokee Falls position of overseer of spinning at Mill, Rockingham, N. C., to become Of winding at the Cherokee Falls overseer of carding at the Hermitage Mill, Camden, S. C.
 - J. L. McCoy has resigned as overseer of spinning at the Hartwell Mills, Jonesville, S. C., and accepted (Ga.) Mills and accepted a similar position at the Franklin Mill, Greer, Plant, Columbia, S. C.
 - W. E. Smith has resigned as sec-Will Moody has been transferred (S. C.) Mill, to become overseer of
 - F. F. Robinson has resigned Highland City Mills, Talladega, Ala. York and Boston.

H. A. Hendricks has been promot-Grange, Ga.

Hamp Neal has resigned as overof winding at one of the mills in Rutherfordton, N. C.

L. N. Chandler has resigned as overseer of spinning at the Wallace a similar position at the Granby

David Clark Weds Miss Aileen Butt.

The wedding of David Clark, editor of the Southern Textile Bulletin, and Miss Aileen Butt, of Charlotte, took place at the home of the bride's parents on Saturday evening, April F. S. Marshall of Philadelphia, overseer of spinning at the Danville 8th, at 7 p. m. Following the cerea, is now master mechanic at the Knitting Mills, Bon Air, Ala., and mony, Mr. Clark and his bride left accepted a similar position at the on a trip of several weeks to New

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Lowe Brothers Mill White puts daylight to work for you -- and saves also on artificial light in night work because of its reflecting and diffusing power. It puts the walls and ceilings in the workbettering class.

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MILL NEWS ITEMS OF INTEREST

system in the mill village.

Sylacauga, Ala.—The Eva Jane Mills are building a waste mill for 3,300 spindles, and will make coarse yarn and rope. They will also have bleaching and dyeing plant.

Gainesville, Tex. — Edgar Van Slyke, of this place, and associates plan to establish a woolen mill. They contemplate an investment of from \$10,000 to \$15,000. Mr. Van Slyke invites data on woolen manufacturing and prices on machinery

Spartanburg, S. G.-Announcement has been made that the Drayton Mills proposes to construct fourteen additional tenant houses and make other improvements to an amount of about \$10,000, the work to start soon.

Columbus, Ga.-Only routine business was transacted at the meeting of the Eagle and Phenix Mills The reports were all last week. very gratifying to the directors, it is stated.

"Everything is running smoothly. our order books keep full, and the situation, with the exception of dyes, is all that could be asked at the Eagle and Phenix," declared Vice President Massey, following the meeting.

Marion, N. C .- The Clinchfield Cotton Mills have placed the contract for the erection of several additional tenant houses in order to secure sufficient employes to operate the mill at "full blast" on the day and night shifts. The mill is now working the two shifts, but it is understood that additional employes are necessary and that provision must be made to care for The Clinchfield Mill has 25,them. 000 spindles.

Burlington, N. C.—The Keystone Finishing Mills are installing additional machinery which will give their finishing department a capacity of 5,000 dozen pairs of hosiery per day. J. M. Browning, secretary and treasurer, reports that the company now has larger orders than usual for both export and domestic trade

Columbus, Ga.—The Meritas Mills has filed with the clerk of Muscogee County a mortgage for \$1,000,000, given by the Guardian Savings and Trust Co., of Cleveland, and covering the Columbus plant of the com-

Durham, N. C.—The Durham Hosiery Mill Company has announced improvements to its local plant aggregating \$40,000. The most important Improvements anonunced, is that covering the remodeling of the Parrish building, a three story

Darlington, S. C .- Officials of the building in the heart of the busi- and \$25,000 will be expended in president of the company said. Darlington Manufacturing Company ness district, and converting it into putting it in shape for operation. When in operation the new decontemplate the installation at an a finishing department. The build- The payroll of the new department partment will turn out 3,000 dozen early date of a complete sewerage ing is now owned by the company will be \$1,000 weekly, J. S. Carr, Jr.,

DAMS—This is Our Specialty

Our Dams stay where they are built, and hold water.

National Hydraulic Construction Company

HYDRO-ENGINEERS AND CONSTRUCTORS SOUTHERN OFFICE DURHAM, N.C. MAIN OFFICE Essex Building, NEWARK, N. J.

Emmons Loom Harness Company

The Largest Manufacturers of Loom Harness and Reeds in America

Loom Harness and Reeds

Slasher and Striking Combs, Warper and Leice Reeds, Beamer and Dresser Hecks, Mending Eyes, Jacquard Heddles.

LAWRENCE, MASS.

Norwood Mechanical Filters

Gravity and Pressure Types

Cleanse Water-Saves Losses-Sold with Guarantee NORWOOD ENGINEERING COMPCNY Florence, Mass.

HOTEL IMPERIAL

Broadway, 31st to 32nd Street

NEW YORK CITY

At Herald Square, the Radial Center of Transportation to all parts of the city. One block from the Pennsylvania Terminal. Surface, Subway and Elevated Service direct to the Hotel, which is in the midst of the fashionable shopping and theatre district.

600 Rooms, Single or en Suite

\$1.50 per day and up. Single, With bath, \$2.00 per day and up.

Our new popular priced restaurant, an innovation in a leading Broadway hotel.

> Write for booklet giving further particulars and map of the city.

WILLARD D. ROCKEFELLER

MANAGER

When in operation the new depairs of hose daily. Ultimately it will turn out 5,000 dozen pairs, Mr. Carr said.

The other large improvement of the company is contained in announcement to the effect that a two story warehouse will be erected on Henderson street. This building will cost approximately \$15,000.

Columbus, Ga.—The Meritas Mills are to erect a large cotton mill besides the one now in operation, according to information received in Columbus. The erection of this addition to the plant here was reported several weeks ago; but it now seems that the amount of money to be expended will be larger than was at first reported, and that when completed will bring the investment at this mill up with that of any other mill in the city or county.

Frank U. Garrard, director the mill stated that the \$1,000,000 which is raised by the mortgage to cover the issuing of bonds would not only construct the addition to the plant, but would pay off the in-debtedness against the mill. He stated that the bonds would be issued each one worth \$1,000, and that the issue would be brought about as soon as possible.

Lewis W. Parker Has Passed Away.

The death of Lewis Wardlaw Parker of Greenville, largest stockholder and until last year, president of the Parker Cotton Mills Co., occurred there early Tuesday morning. Mr. Parker had been ill for several months, suffering with some throat affection, and the news of his death did not come as a surprise

Mr. Parker was born July 11, 1865, being only 51 years of age at the time of his death. Although a comparatively young man in the cotton mill business he occupied at one time the most important position in the cotton mill industry. He was president of several cotton mills and when 16 mills located in various sections of the state merged into the Parker Cotton Mills company he was selected as the head of the merger.

Mr. Parker was one of the heaviest if not the heaviest insured man in South Carolina. Recently it was stated by insurance men in position to know that companies carried insurance to the amount of \$850,000 on his life.

He was magnetic and a natural leader of men, two attributes that made him popular with all the people. His illness developed two or three years ago, his merger began to dissolve and he practically retired from the cotton mill business several months ago. He was a lawyer, having been graduated from the University of South Carolina, and on his retirement from the mill business he began practicing law in Greenville. Later he became ass ciate editor of the Greenville Daily Piedmont, a newspaper in which it is said that he owned considerable capital stock.

Mr. Parker was born at Abbeville in 1865, and was the son of the late William Henry Parker, one of the most distinguished jurists of the state. His mother was Lucia Wardlaw, daughter of Judge Wardlaw. After attending the village schools and acquiring a good academic education he graduated at the South Carolina college in 1885, with the degree of Bachelor of Arts. He married Miss Margaret Smith of Richmond on June 6, 1893.

Immediately after his graduation he taught school for three years and then moved to Greenville in 1889, and began the practice of law, which he continued for ten years. In 1897, owing to his wonderful ca-pacity for business he became president and treasurer of the Victor Manufacturing company, engaged in cotton manufacture at Greer, S. C., assisted by Thomas F. Parker he organized the Monaghan Mills at Greenville. He was the moving spirit in the organization of the Parker Cotton Mills Co.

Parker Cotton Mills May Sell Hampton Plant.

Greenville, S. C .- The Parker Cotton Mills Co. is now considering another plan of reorganization, which is to sell the plant of the Hampton Cotton Mills., one of the three sub-sidiary companies. The letter ex-plaining this plan has been mailed and is as follows:

To the Stockholders of the Parker Cotton Mills Co.:

"It is probable that a sale can made, at a satisfactory price, of the plants of the Hampton Cotton Mills Co., a subsidiary company of the Parker Cotton Mills Co. In our opinion, if a sale can be consumated it should enable the Parker Cotton Mills Co., to effect such a settle-ment of the heavy and pressing debts of the subsidiary companies. which must be soon provided for, that within a year's time any se-curities against the Victor Manufacturing Co., and the Monaghan Mills plants which may be issued to creditors for claims against the subsidiary companies should approximately be offset by assets other than plants they be assets. other than plants, thus leaving at tne end of the year as an asset for the stockholders of the Parker Mills Co. the plants of the Victor Manu-facturing Co., and the Monaghan

"In the event of a sale being made as above mentioned, the plan and agreement of reorganization recently sent you will be abandoned, and the stockholders of the Parker Cotton Mills Co. will not be asked to pay any assesment which otherwise would be necessary. The question of the proposed sale has been sub-

WILLIAM FIRTH, President



head piping which—especially in saw-tooth roofs -casts disagreeable shadows.

THE TURBO HUMIDIFIER

has as a possible ramification its ring construction; the rings are around the posts and the piping all underneath, out of the way. No shadows with the Turbo Ring Construction. This may seem a minor detail, but it is one of the Turbo points that leads toward satisfied customers.

Get Turbofied-and satisfied.

be satisfied

Just say the word-NOW-to

THE G. M. PARKS CO.

Fitchburg, Mass.

Southern Office Commercial Building, Charlotte, N. C.

J. S. COTHRAN, Manager.

Direct Representation Will **Bring Results**



HENRY SEARING

SELLING AGENT

Plain and Fancy Cotton Fabrics

66 to 72 Leonard Street **NEW YORK**

AIR

COMPANY

AMERICAN

Correspondence

THE ONLY PERFECT SYSTEM OF

Solicited

FRANK B. COMINS, Vice-Pres. and Treas MOISTENING

COMINS SECTIONAL HUMIDIFIER JOHN HILL, Southern Representative, 1014 Healy Building, ATLANTA, GEORGIA

"A notice of, and proxy for, a special meeting of the stockholders to authorize the sale of the plants of the Hampton Cotton Mills Co. are sent you herewith. **American Textile Banding Company** Enlarges Plant.

mitted to the directors of the Park-er Cotton Mills Co., and the Hampton Cotton Mills Co., and has been unan-

imously aproved by them.

The American Textile Banding Company, of Philadelphia, anonun-ces that owing to the increasing demand for their spinning tape, they have found it necessary to move into larger quarters and increase the capacity of their plant fifty per cent. Their new location is Hunting Park Avenue and Marshall Street.

Announcement.

The Link-Belt Company, Chicago-Indianapolis, manufacturers of the Link-Belt silent chain drive, extensively used in textile mills for the transmission of power, will be represented hereafter in the States of North and South Carolina by Mr. J. S. Cothran, 200 Commercial Bank Building, Charlotte, N. C.

Link-Belt silent chain is the modern method of transmitting power from line shafting to machine or from motor to machine. The man-ufacturer claims that it has the flexible qualities of the leather belt, and the position action of spur gears. It is over 98 per cent efficient throughout its life.

Mr. Cothran is the newest of the Link-Belt service men, now located at convenient points throughout the country. He will be ready and willing to discuss power transmission problems which can be solved by the employment of Link-Belt silent chain drives.

Mr. Cothran is distributing copies of the 112-page Link-Belt silent chain data book No. 125, which contains the only price list ever published on this product.

Management of Pomona Cotton Mills as Hosts.

The management of the Pomona Cotton Mills, Greensboro, was host Saturday evening to a pleasant informal dinner with the superintendent and overseers of the mills as the guests. The dinner occurred at 8 o'clock in the Hotel Guilford, beginning at that hour and lasting through the evening. The president of the table was T. A. Hunter, the secretary-treasurer of the company and its general manager. Speeches were made by Superintendent Bean and others of those present with the "spirit of co-operation" as the key-note of the addresses. The mills have had a very successful year and the get-together dinner was

Cotton Goods Report

markets were firm and quiet last in the way of getting them flinish-week. Many specialties are still in ed were factors in the smaller bussteadily. Staple domestics are be-

In addition to the recent advances on staple colored goods, further ad- a week or two. vances are looked for on both staple Standard prints and ginghams. prints are now on a basis of 6 1-2 cents a yard, as compared to 4 3-4 this time last year, but according to some manufacturers, selling prices are not yet on a parity with the cost of production. At 8 cents, staple ginghams are a \$2.3-4 cents over quotations last year, and many houses think prices will soon be marked even birther. marked even higher.

Southern ginghams are now held on the basis of 7 cents a yard, which is the highest price that these goods have ever sold for. The strong upward movement in prices is not confined to colored goods, as staple brown and bleached goods are also moving up.

Export trade in cotton goods is increasing steadily. Many houses that have never sought export trade are being offered business as stocks in neutral countries become lower and lower and normal sources of supply cannot be relied upon. Many houses handling foreign goods in neutral markets are finding American made goods and clothing can be sold profitably and to the benefit and satisfaction of the purchasers. The volume of miscellaneous foreign trade is increasing all the while and satisfaction expressed by foreign users of American goods is leading to many repeat or-

The position of tickings, denims In sight for we and other heavy colored cotton fabrics is now fairly well known to the buyer of these goods. In spite of high prices now in force, a good many manufacturers are considering further advances, and at the same time, ways and means for producing goods in colors which can be guaranteed fast. Prices on denims range all the way from 13 1-2 to 23 1-2 cents, according to the grade of goods offered. It is possible in some quarters to secure 2-20s in indigo blues at 18 1-2 cents, but as a rule mannfacturers have placed their goods on an "at value" basis, and the buyer pays according to the price, or cost of goods at time of delivery.

Condition were rather quiet in the Fall River print cloth market last week. The demand was moderate and the market continued firm and steady. The inability of bleachers

good demand, but jobbers are not iness done last week. Mill men are buying in any large quantities, but not alarmed over the smaller sales, are anxious for deliveries on goods as they think they will tend to regalready ordered. Prints and ging- ulate the market. Sales for the hams are holding firm and white week were about 155,000 pieces. goods and wash fabrics are moving Buyers purchased carefully through out the week and sales were a good ing sold steadily, and the steady can be sold steadily, and the steady can be for duck continues. Colored goods several weeks. The demand was of a heavy construction have so broad and covered most of the well sold ahead that there is little styles made here. The usual styles were covered in the week's trade, the most sales calling for prompt delivery or delivery to begin within

> Prices on cotton goods were quoted in New York as follows: Duint alotha

| | Print cloths, 28-inch. |
|---|------------------------------|
| | 64x64s4 |
|) | 28-inch, 64x60s 3 7-8 |
| 8 | Gray goods, 29-inch, |
| L | 68x72s 6 — |
| 3 | 38 1-2-inch, 64x64s 5 1-2 — |
| * | |
| 7 | 4-yard, 80v80s 7 1-4 |
| 3 | Brown drills, std 8 |
| | Sheetings, So., std 8 |
| i | 3-yard, 48x48s 7 3-8 — |
| | 4-yard, 56x60s 6 1-4 6 3-8 |
| 9 | 4-yard, 48x48s 6 — |
| 9 | 4-yard, 44x44s 6 — |
| | 5-yard, 48x48s 5 1-4 — |
| 8 | Denims, 9-ounce At value- |
| 8 | Denims, 2.20sAt value |
| 9 | Selkirk, 8-oz., duck13 |
| | Oliver, extra, 8-oz13 |
| 8 | Hartford, 11-oz., 40-in |
| 8 | duck |
| 9 | Woodberry, sail d'k. 20% - |
| 8 | Mt. Vernon, wide d'k25% |
| f | Mt. Vernon, wide d'k271/2% |
| f | |
| y | Alexander, ez. d'k11c b'sis— |
| a | Buckeye, oz. duck11c b'sis- |
| t | Ticking, 8-ounce 16 — |
| g | Standard prints 6 1-2 — |
| 8 | Standard ginghams 8 — |
| | Dress ginghams 9 1-2 10 1-2 |
| | Kid finished cambries 6 7 |

Hester's Weekly Statement,

Comparisons are to actual date, notual date, not to close of corres-

| | In signe for week | 122,00 |
|----|------------------------------|-----------|
| | Same 7 days last year | 239,000 |
| | Same 7 days year before | 87,000 |
| | For the month | 122,000 |
| | Same date last year | 239,000 |
| | For season | |
| | Same date last year 1 | 3 726 000 |
| | Port receipts for season | 6.179.000 |
| | Same date last year | 9.597.000 |
| | Overland to mills and Can- | 0,007,000 |
| | | 909 000 |
| | ada for season | 892,000 |
| | Same date last year | 952,000 |
| | Southern mill takings for | |
| | season | 3,049,000 |
| | Same date last year | 2,437,000 |
| | Interior stocks in excess of | |
| í, | August 1 | 469,000 |
| | Last year | 750,000 |
| 10 | Foreign exports for week | 123,000 |
| | Same 7 days last year | 168,000 |
| , | For season | 4.114.000 |
| | Same date last year | 6.672.000 |
| 3 | Northern spinners' takings | |
| l | and Canada for week | 33,000 |

Same 7 days last year...

84,000

Our Spinning Rings SINGLE OR DOUBLE FLANGE

START EASIEST, RUN SMOOTHEST, WEAR LONGEST

Pawtucket Spinning Ring Co.

CENTRAL FALLS, R. I.



RICHARD A. BLYTHE

(INCORPORATED)

Cotton Yarns Mercerized and Natural

ALL NUMBERS

505-506 Mariner and Merchant Building

PHILADELPHIA, PA

THE SEYDEL MFG. COMPANY



Sizings and Finishings

Soaps and Softeners

FOR ALL TEXTILES.

The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

J. A. PRIDE

General Industrial Agent Seaboard Air Line Railway NORFOLK, VIRGINIA.

Yarn Mill for Sale

For Sale: A 7,000 spindle hosiery yarn mill. Machinery upto date. Been operated only a short time. Will be sold at a very low price to responsible parties. Address J. Z. Miller, Jr., Kansas City, Mo., or O. A. Robbins, Florence, Ala.

The Yarn Market

Philadelphia, Pa.—Last week was a fairly active one in the yarn market here. There were a great many inquiries for large lots of yarn and many sales were made of 50,000 to 100.000 pounds of yarn, for late deliveries, in some cases delivery not to start until fall. Buyers still consider spinners prices too high and many inquiries did not result in sales for this reason. The receipts for yarn from the South were large and though deliveries were made to manufacturers by dealers as soon as the yarn was received, the railroad embargo is still causing a great deal of delay in making prompt deliver-

All branches of the knit goods trade are reported as having a large business on hand and mills are running to capacity. The dyestuff situation is not showing signs of improvement and sales of colors have been made at fabulous prices. Black appears to be the only color that can be secured at reasonable prices. Knitters are further bothered by the scarcity of needles, which have become very scarce and very high priced.

spinners prices. Large sales of yarn for export trade were made last week, the prices of which was said to average about 21 and 21 1-2 cents, basis of 10s. The domestic demand for yarn is still far better not to close of corresponding weeks. encouraged to hold out for export prices when selling the domestic trade. Inquiries for yarns for delivery the latter part of the summer and early fall were frequent in the market last week. Quotations varied widely, showing a further up-ward tendency towards the close of the week. Sales of coarse numbers were reported on the basis of 20 and 20 1-2 cents for 10s for prompt shipment, for late delivery 20 1-2 cents, basis of 10s.

Combed yarns continued to be irregular in price last week, with a tendency toward a higher level, this being especially true of the finer counts. The better quality finer counts. The better quality yarns are moved up so rapidly that prices are not held from one day to another. Most mills making fine combed yarns are unable to take further orders for the next three to six months, so they are in a position to name high prices and hold out for them.

Yarn Quotations.

Southern Two-Ply Skeins.

| Southern | Two-Ply | Skeins. |
|----------|---------|---------|
| | | |

| 48 | to 8s | 19 1-2-20 |
|-----|---------------|------------|
| 10s | to 12s | 21 —21 1-2 |
| 148 | | 22 -22 1-2 |
| 168 | ************ | 23 -14 |
| 208 | ************* | 25 1-2-26 |
| 248 | | 28 — |
| 268 | ************ | 29 — |
| | | |

| 20e | | | | | | | | | | | | | | | | | 14 | 1-2-32 |
|------|----|---|----|---|----|----|---|----|---|----|-----|---|-----|---|----|----|----|------------|
| | | | | | | | | | | | | | | | | | | |
| 36s | | | * | | * | * | | 60 | | 9 | | * | | | | 9 | 18 | |
| 408 | | | | | | | | | | | | | | | | | 19 | 1-2-40 1-2 |
| 50s | 9 | 4 | | 4 | | 9 | | | 4 | * | | | | 4 | | 5 | 5 | |
| 60s | | | | | | | | | | | | | | | | | | |
| 3-pl | y. | 8 | 3s | | u | p | 1 | 10 | o | 18 | 31 | £ | 12 | 3 | 7. | .1 | 9 | 1-2-20 1-2 |
| 4-01 | v | 6 | ķ | Ē | ti | 'n | i | 10 | o | ĺŝ | a f | e | ST. | 3 | , | | 9 | 1-2-20 1-2 |

Southern Single Skeins.

| 48 | to 8s | 1919 1-2 |
|-----|---------------|-----------|
| | | |
| 128 | ************* | 21 1-2- |
| 148 | ************* | 21 1-2- |
| 16s | | 22 1-2- |
| 208 | ************ | -23 1-2 |
| 228 | | 23 — |
| 26s | *********** | 25 1-2-26 |
| 30s | | 28 |

Southern Single Chain Warps.

| | Chicago Company Company | |
|-------------|-------------------------|---------|
| | 21 | |
| 148 | 21 | -21 1-2 |
| | 22 | |
| | 23 | |
| Umras (5.3) | 23 | 1-2- |
| | 25 | |
| | 26 | |
| | 28 | |
| 408 | 36 | |

| . 8s to | 108 | | 21 | -22 | |
|---------|-----|-----------|----|--------|---|
| 12s to | 148 | | 23 | | |
| 2-ply | 16s | ********* | 23 | 1-2-24 | |
| 2-ply | 208 | | | -26 | |
| 2-ply | 248 | | 28 | 1-2-29 | |
| 2-ply | 26s | | 30 | | ŀ |
| 2-ply | 30s | | 31 | 1-2-32 | |
| 2-ply | 408 | | 40 | | |
| 2-ply | 50s | | 54 | | |
| 2-ply | 60s | | 60 | - | |
| | | | | | |

Southern Frame Cones.

| 40 | * * * * * * * * * * * * * * * * * * * | ### (Fig. 12) 11 (Fig. 12) 11 (Fig. 12) 12 (|
|-----|---------------------------------------|--|
| 10s | | 20 1-2- |
| 128 | | 21 |
| | | |
| | ******* | |
| | | |
| | | |
| | | |
| | | |
| 26s | ******* | 25 — |
| 228 | fleece colors | -25 |
| | | |
| | | |
| | | |

Two2Ply Combed Peeler Skeins.

| 248 | ************ | 36 —37 | |
|-----|---------------|--------|--|
| | | | |
| | | | |
| | | | |
| | | | |
| 708 | | 75 -78 | |
| | ************* | | |
| | | | |

All productions must bear a price Prices of yarns were quoted in in proportion to the skill, time, ex-New York on Monday as follows: pense and risk attending their manufacture.

> In other words, it is the skill, the expénse and the risk attending the manufacture of an article that give it is real value.

The disposition that many buyers markets.

NIGRUM"

Treated Wood SADDLES Which Require No Oil or Grease and Save You Money in Many Ways
If not, write to us at once for information



GRAPHITE LUBRICATING COMPANY. - -

Bound Brook, N. J.

Over 7,500 Open Box Expansion Combs Now in Use

MANY OF THEM ON OTHER MAKES OF WARPERS



TAPE EXPANSION COMB

Expansion Combs can be had in either screw or tape types for any number of ends for Warpers, Beamers or Slashers.

The open box facilitates cleaning and prevents clogging with fly, while in expanding the comb it is advantageous to have the springs visible.

The guide wire is between and in contact with the upper springs thus keeping the springs apart and stiffening the comb.

T. C. ENTWISTLE COMPANY

ESTABLISHED 1886-INCORPORATED 1901

F. B. KENNEY, PRESIDENT

LOWELL, MASS.

Southern Representative, J. H. MAYES, Charlotte, N. C.

Hotel Lenox

Boston, U. S. A.

It's remarkable, the number of men who find the equipment, service and cuisine at Hotel Lenox reflect their ideas of what a hotel should be.

Near Mechanic's Hall and the Back Bay Railway Stations. Convenient to the theatres, shopping and business sections.

Single Room with bath - - \$2.50 to \$4.00 Double Rooms with bath - - - \$3.50 to \$5.00

L. C. Prior, Managing Director

Therefore, many things called have for cheapness, and for excel-

Almost any old-time dealer dear are, when justly estimated, the lance, is the most frequent and cer-household or other goods will tell cheapest and in every way the most tain cause for the cheap and poorly you how inferior many of the goods made articles now found in our new offered for sale are to similar goods made forty to fifty years ago.

Personal Items

from second hand in twisting and E. K. Hudson, Mr. and Mrs. Crane,

- H. A. Taylor, formerly of McColl, S. C., has accepted the position of overseer of carding at the Dan River Mills No. 2, Danville, Va.
- O. G. Murphy has succeeded his father, the late Geo. W. Murphy, as superintendent of the Shawmut (Ala.) Mills.
- W. P. Loftis has resigned as overseer of spinning and finishing at the No. 4 Mill, McColl, S. C., to ac-cept overseer spinning at the Woodruff Cotton Mills, Woodruff, S. C.
- J. J. Crosby has resigned as over-Chester, S. C., to accept a similar position at the Fairfield Mills, Winnsboro, S. C.
- J. L. Phillip has resigned as overseer of weaving at the Enoree (S. C.) Mfg. Co., to accept position as traveling representative Southern Textile Bulletin.

Fire Destroyed Pelham School.

The Pelham mill school building at Pelham, S. C., was totally destroyed by fire at 3 o'clock Monday morn-The loss will amount to \$2,-Amount of insurance unknown.

The structure, which was erected about three years ago, was a modern frame building with four rooms. The loss falls particularly hard on the patrons of the district, since not only was the building destroyed, but all the school furnishings, including desks, globes, maps, library and other valuable fixtures were lost. It was only recently that the maps and desks were installed.

The origin of the fire is unknown. No one had been to the building since the school adjourned Friday afternoon.

Temporary arrangements have been made to continue the school for the remainder of the session. It is probable that a new structure and and dextrin. With caustic soda or more modern will be erected on the potash, starch swells up, forming a site.

In Honor of Retiring Superintendent

S. C., was the farewell dinner given acid by the overseers in honor of Mr. and Mrs. T. H. Henderson, on Saturday evening at six o'clock at the when cooled, home of Mr. and Mrs. B. D. Eads. When treat

they were ushered into the dining This reaction proceeds most readily room where after they had found at a temperature of 60° to 65° C. their places, a delicious five-course This reaction makes the starch sodinner was served by Misses Audrex luble in water and is why diastafor, Farrow and Fay McHugh.

the sitting room to enjoy their absolutely essential that no alkali cigars, while the ladies lingered be present during the process. over their coffee.

music program was rendered the Misses Tillotson, Farrow, Mc-Hugh and Messrs. Hudson, Eads Hugh and Messrs. Hudson, and McMahon.

The invited guests were: Mr. and Walter Knight has been promoted Mrs. T. H. Henderson, Mr. and Mrs. winding to second hand in spinning Mr. and Mrs. Henry Hawkins, Mr. at Hillside Mills, LaGrange, Ga. and Mrs. Courteny Hawkins, Misses Tillotson Farrow. McHugh, Henderson, Irene and Ophelia Hawkins, Messrs. Jack Ackerman of Charles ton, D. W. Eads, J. F. McMahan, R. L. Willington of Columbia, and F. R. Williams of Cateechee.

The evening closed with many good wishes to Mr. and Mrs. Henderson for a prosperous and happy ear in their new home at Winnsboro, S. C.

Finishing Denims and Ticking.

(Continued from Page 9). tion and souring of flour is only valuable because it renders the gluten soluble and this same result is seer of weaving at the Wylie Mills, obtained by Calvert and Lowe's patent, which patent right has expired now and can be used by anyone

Flour, whether soured or not, unless treated with this process or some other antiseptic in sufficient quantity, contains several bodies that are prone to decomposition by fermentation, and is a dangerous thing to use in heavy finishes, and while it posseses some good points the writer does not advocate its use.

Starch is the cleanest and best to handle and the general results are more uniform, safer and more Starch is a white, odorless body that is insoluble in cold water. It cannot be dissolved in any of the ordinary chemical reagents without undergoing change. Starch is a colloid body which swells up when boiled into a viscid paste when cool. Colloids are bowhich cannot be diffused dies through a membrane, owing to their molecular complexity, while crystalloids are easily diffusible. Now. when starch undergoes chemical changes which render it soluble, it is transferred into a crystalloid substance, for instance, when boiled with dilute acids it is converted into dextrin, while ferments such as diastase change it into maltose clear transparent paste called apparatin, which posseses great stiffening and binding power and which is far more permanent than the One of the most enjoyable social original starch. Prolonged boiling events of Apalache Mill, Arlington, with water or treatment with an changes starch into a soluble condition that forms a solution with boiling water which will not set

When treated with diastase. The guests were received by the enzyme present in malt, especially host and hostess.

if previously gelatinized, starch is Dinner being announced at six, converted into maltose and dextrin. which agent in the removal of starch After dinner the men retired to dressings from cotton goods. It is be present during the process. Diastase will not work in the pres-Later in the evening all gathered ence of alkalis or heat over 130° to in the reception hall, where a 140°F.—Textile American

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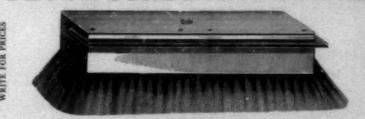
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PROPER LOCATIONS FOR MILLS.

United States Census figures show that since 1880 the consumption of cotton in mills of the cotton growing States has increased 1,502 per cent, as compared with an increase of only 93 per cent in all other states. In the twelve months ended August 31, 1914 Southern mills consumed 182,097 more bales of cotton than the mills of all other States. Three-fourths, or 2,000,000, of the total cotton spindles in the cotton growing States are tributary to Southern Railway tracks. Of the 200 knitting mills in the South over 125 are located along the Southern Railway. Nearly all the Southern woolen and slik mills are also on Southern Railway tracks.

There is a reason for this, and it is not difficult to understand.

The Southern Railway Lines enter and serve most completely those portions of the South where the textile industry is the greatest success, because there are found all the conditions which makes for successful manufacture—the proper transportation facilities, the ease with which the raw material and the needed fuel may be secured, the supply of good labor, the pure water, the low cost of power, and favorable local conditions.

Not only for textile plants but for all other industries the best advantages will be found in this territory.

If you have a plant to locate less take up with you the question of the

If you have a plant to locate, let us take up with you the question of the proper location. Your plans will be held confidential. Our knowledge of conditions at various points and our experience in locating other mills and the time of our agents in making special investigations are at your service if desired.



M. V. RICHARDS, Industrial and Agricultural Commissioner, Southern Railway, Room 129, Washington, D. C.

Want Department

Want Advertisements.

If you are needing men for any position or have second hand machinery, etc. ,to sell the want columns of the Southern Textile Bulletin afford the best medium for advertising the fact.

Advertisements placed with us reach all the mills and show results.

Employment Bureau.

The Employment Bureau is a feature of the Southern Textile Bulletin and we have better facilities for placing men in Southern mills than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position is secured, in which case a reasonable free is charged.

We do not guarantee to place every man who joins our employment bureau, but we do give them the best service of any employment bureau connected with the Southern textile industry.

Shafting and Pulleys For Sale.

445 feet 1 15/16 in. shafting.
80 feet 2 15/16 in. shafting.
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7 pulleys 12 inch diameter.
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1 pulley 40 inch diameter.
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All in good condition. Address
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Denn Warper Tender Wanted.

Want a good, reliable man to run Denn Warper. None but first-class man, who can get off the work, need apply. Address Mary Louise Mills, Mayo, S. C.

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Would like to correspond with some first class electrician. A man that is competent of keeping up A. C. & D. C. Motors, also inside and outside wiring. No one but a first class man would be considered. Address Electrician of Textile Bulletin.

Expert Overseer.

Wanted position as overseer weaving at not less than \$4.00. Can deliver the goods without the "Bull." Am considered A No. 1 Draper man. Experienced on white and colored goods. Nine years as overseer. Good manager. At present employed and can give present employer as reference. Address "Overseer," care Bulletin.

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Wanted. Spinners, doffers, winder and spooler hands. Best running work in this section, good healthy place to live, regular work. Apply to overseer spinning, Aldora Mills, Barnesville, Ga.

For Sale.

One 12-inch swing foot screw cutting, Blaidsell Lathe, Universal Chuck, center rest, friction clutch. Nearly new. Write G. H. Logan, Kings Mountain, N. C.

Help Wanted.

Wanted—Frame hands and spinners. Good wages. Excellent mill conditions and fine mountain climate. Best place to live in the United States. Address Knoxville Cotton Mills, Knoxville, Tenn.

WANT position as superintendent in a yarn mill or carding and spinning or both. 30 years experience. Good references. Can change on short notice. Address No. 1397.

WANT position as superintendent or overseer of spinning. Am a practical man 40 years old. Married. Strictly sober. Experienced from picker to cloth room on white and colored goods. Can furnish good references as to ability and character. Address No. 1398.

WANT position as overseer spinning in small mill or second hand in large mill. 39 years experience in spinning. Prefer mill in small place. Address No. 1399.

WANT position as superintendent of small mill, or overseer carding or spinning or both in large mill. Am employed at present. Good references. Address No. 1400.

WANT position as superintendent. Have had long experience on both coarse and fine goods and can furnish the best of references as to character and ability. Address No. 1404

WANT position as superintendent or as salesman. Can furnish best of references from former employers nd can give satisfaction. Address No. 1402.

WANT position as overseer of spinning in 20,000 to 30,000 spindle mill. Am a practical spinner of long experience and can furnish best of references. Address No. 1403.

WANT position as overseer in small weave room or second hand in large room. Have had 16 years experience. Age 35 years. Strictly sober and a good manager of tendent,

help. Married and can give the best of references. A hustler for production. Am now second hand in a large mill, but wish to make change. Address No. 1404.

WANT position as superintendent or overseer of carding. Am now employed as superintendent of small mill, but would prefer to change. Best of references. Address No. 1405.

WANT position as superintendent or overseer of spinning, am now employed and have had long experience on both coarse and fine work. Can give present employers as reference. Address No. 1406.

WANT position as overseer of weaving. Have had long experience on both plain and fancy goods and am experienced on both plain and fancy goods and am experienced designer. Can furnish best of references. Address No. 1407.

WANT position as superintendent. Have had large experience. Am uow employed and have always given satisfaction. Reason for changing is better salary, age 45 years, married, strictly sober, experienced from ground up on both white and colored work. Address No. 1409.

WANT position as superintendent or overseer of weaving. Have had large experience both as superintendent of yarn and weaving mills and am a good manager of help. Can furnish best of references. Address No. 1410.

WANT position as superintendent.
Am now employed as overseer of carding and spinning and am giving perfect satisfaction. Have been superintendent for fifteen years and overseer of carding and spinning for a number of years.
Best of references to character and ability. Address No. 1411.

WANT position as overseer of carding by married man 33 years of age and strictly sober. Am now employed as carder. Have been in present job 2 years, but desire to change. Ten years experience in carding and combing. Can change on short notice. Address No. 1412.

WANT position as superintendent or overser of large weave room. Have had long experience and have handled some of the most successful mills in the outh. Can furnish good references and get results. Address No. 1413.

WANT position as superintendent or overseer of spinning. Now employed as overseer of spinning in large mill but would prefer different locality. Satisfactory references. Address No. 1414.

WANT position as superintendent of small yarn mill or as overseer of spinning. Age 32. Married. Have 18 years experience in carding and spinning on 6s to 60s. Can furnish best of references. Address No. 1415.

POSITION WANTED as superintendent, by practical man of ex-

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ecutive ability. Fully capable of managing mill. 8 years as over-seer of weaving in largest mill in S. C. 3 years experience as superintendent. Now employed as superintendent. Can give present and all former employers as ref-

WANT position as superintendent of either cloth or yarn mill. 18 years experience as superintendent. Can furnish best of reference. Address No. 1417.

erence. Address No. 1416.

WANT position as overseer of spinning, warping, spooling and slashing. Have fifteen years experence. Am married and sober. Can give best of references. Address No. 1418.

WANT position as superintnedent of either yarn or weaving mill. Am now employed as superintendent and have held present position for past 8 years. Would invest some money where there is a good future. Address No. 1419.

WANT position as superintendent of plain weave mill or overseer of carding in large mill at not less than \$5.00 per day. Am a young man with practical experience. Thoroughly competent to handle a mill. Can give satisfactory referces from present and former employers. Address No. 1420.

WANT position as superintendent or overser of weaving. Have had long experience in both positions and can furnish best of references from former employers. Address No. 1421.

WANT position as overseer of spinning. Prefer a room of 20,000 to 50,000 spindles on fine yarns as have had long successful experience on fine numbers. Satisfactory references. Address No. 1424.

WANT position as superintendent or overseer of carding. Have had long experience and am now employed but desire better location. Good references. Address No. 1425.

WANT position as superintendent or overseer of carding. Now employed as overseer of large card room and would only change for better position. Good references. Address No. 1426.

WANT position as superintendent of either weaving or yarn mill, or overseer of weaving or spinning in either weaving or spinning in large mill. Can give good references. Address No. 1428.

- carding and spinning. Now employed as carder. Information relative to character and ability will be furnished when desired. Address No. 1427.
- WANT position as chief engineer or master mechanic. Can handle 20,000 to 30,000 spindle mill. Can furnish references from not only superintendents but presidents and general managers for whom I have worked. Address 1429.
 - Have had long experience and good training. Am' now employed as second hand in large card room. Can furnish best of references. Address No. 1433.
- SUPERINTENDENT desires to correspond with Southern mill that not getting quality and quantity and quality. 25 years experience on both white and colored work. Hosiery yarns also. Apply to No. 1434.
- WANT position as overseer of spin-Would accept position as second hand in large room. Prefer yarn mill. Can furnish best of references. Address No. 1435.
- WANT position as superintendent. been superintendent for large mills and am now employed. furnish best of references. Address No. 1436.
- WANT position as overseer of weaving. Have had long experience on both white and colored work. Can give last employers as reference. Address No. 1430.
- WANT position as superintendent. Married. Age 37. Do not indulge in intoxicating drinks. tile graduate but practical mill Have held present position six years. Address No. 1431.
- WANT position as superintendent. Have held present job as superintendent for 12 years and am giving satisfaction but want larger Good references. Address No 1432.
- WANT position as overseer of card-WANT position as superintendent or overseer of weaving. Have had long experience in both positions and can furnish best of references. Address No. 1437.
- WANT position as superintendent of either white or colored goods mill. Am experienced as designer. Am now employed but would prefer mill of better locality. Good references. Address No. 1438.
- WANT position as superintendent of yarn mill or as carder. Long practical experience on all classes of yarn from 4s to 180s. Also experience on automobile tire fabrics. Address No. 1439.
- WANT position as superintendent weaving mill on either white of colored work. Have had ten years experience as overseer of weaving printed cloths, sheetings, drills and ginghams. Can furnish best of references and handle mill in first class shape. Address No. 1440.

- WANT position as superintendent. WANT position as overseer of weav-Would accept large card room or mg or salesman for compound or mill supply house. Am now employed and giving satisfaction but would prefer to change. Address No. 4444
 - WANT position as overseer of spinning. Had rather take a job that is down and puli it up. good manager of help with long experience and am a hustler. Good references. Address No.
 - WANT position as superintendent of or overseer of large card room. Am giving satisfaction on present job but want larger salary. Have good education and am manager of help. Five years experience as machine erector. Address No.
 - WANT position as overseer of carding in a medium size mill. a good carder and can get quantity and quality with a minimum cost. Age 30, married, strickly temperate. Good references from present and past employers. Address No. 1444.
 - WANT position as superintendent of woolen mill or cotton waste Have had special experience handling waste or woolen system and can furnish best of references. Address No. 1445.
 - WANT position as overseer of weav-Age 35. Have had twenty vears experience in weave room on plain and fancy weaves. Good references. Address No. 1446.
 - WANT position as second hand or overseer in card room. Age 28, strictly soexperience. Will furnish as references former superintendents for I have worked. Address whom No. 1447.
 - WANT a place at a cotton mill, as Throughly expericotton man. Ten years with dealers and brokers. Familiar with conditions, grade and staple of cotton. Competent to look after entire end of business. Correspondence solicited. Write No. 1448.
 - WANT position as overseer of carding in good mill. 38 years old, married, long experience. Good references from mills in which I have run rooms. Can come at once. Address No. 1449.
 - position as superintendent of mill from 30,000 to 40,000 spin-Either yarn or weaving mill. Am practical carder, spinner and weaver. Will not consider any thing under \$3,000 per year. furnish best of references. dress No. 1450.
 - WANT position as overseer of weaving, slashing and Age 35. Married. H warping. Have been overseer of weaving for past seven years. Can change at once. Address No. 1451.
 - WANT position as superintendent, assistant superintendent or over-

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J. A. ROUNTREE, Receiver, Barker Cotton Mill Co., Mobile, Ala.

- seer of weaving. Am now employed as overseer of large weave room and am giving satisfaction. Can furnish best of references. dress No. 1452.
- WANT position as master mechanic. Have had six years expereince as mill master mechanic and can furnish good references. Address
- WANT position as superintendent or as carder or spinner in large mill. Would prefer North Carolina. Am now employed and giving satisfaction, but desire promotion. Address 1454.
- VANT position as overseer of carding. Have 12 years experience as overseer in such mills as Eagle and Phenix, Muscogee and Dan Age 35. At present empleyed. Can change on short no-Address No. 1455.
- WANT position as overser of carding in small mill or overseer of spinning in large mill. Have had 4 years experience as overseer of spinning and wish large room. Age 29. Married. Strickly sober. references. Good Address
- WANT position as superintendent or overseer of carding or spinning. Can furnish former employers as references. Have had experience in first-class mills. Address No. 1457.
- WANT position as overseer of card-Have had 17 years experience on carded and combed work. Married. Age 32. At present employed as overseer of carding. Good references. Address No.

- WANT position as overseer of card-Have had long experience ing. and am giving satisfaction on present job as night overseer, but wish to change to day job. dress No. 1459.
- WANT position as carder or carder and spinner. Am now employed as carder and spinner. Age 29. Can furnish best kind of references. Address No. 1460.
- WANT position as overseer of spinning. Have had long experience in some of best mills in the South and have been with present mill for 7 years. Can furnish references. Address No. 1461.
- WANT position as overseer of carding. 30 years experience as overof carding on both coarse seer and fine numbers. Strickly so-Good manager of help. Can furnish best of references. dress 1462.
- WANT position as overseer of spinning in medium size mill. Can experience. Had special experience on combing and fine yarns. Can furnish good references. Address No. 1464.
- WANT position as overseer of carding and spinning. Am now employed and giving satisfaction but prefer different class of work. Can furnish best of references. Adrress No. 1465.
- WANT position as overseer of weav-Have been promoted from loom fixer through to overseer. Am giving satisfaction but prefer larger mill. Fine references. Address No. 1466.

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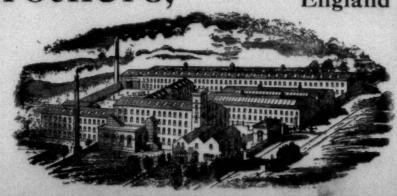
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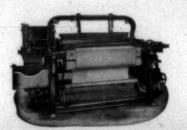
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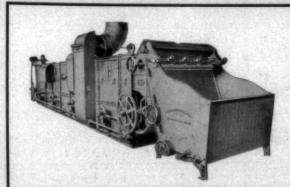
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